

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Jacob Benesty  
Dennis Raymond Morgan

Application No.:

Filed:

For: MULTI-CHANNEL FREQUENCY-  
DOMAIN ADAPTIVE FILTER METHOD  
AND APPARATUS

GAU: Unassigned

Examiner: Unassigned

INFORMATION DISCLOSURE  
STATEMENT

2600 Aramark Tower  
1101 Market Street  
Philadelphia, PA 19107

1c675 U.S. PTO

09/473547

12/28/99

*K. Ward*  
*3/5/00*  
*#2*  
*Printed*  
*in attach*

The Assistant Commissioner of  
Patents and Trademarks  
Washington, D.C. 20231

**CERTIFICATE OF MAILING**  
I hereby certify that this correspondence is  
being deposited with the United States Postal  
Service First Class Mail in an envelope  
addressed to: Box Patent Application, The  
Assistant Commissioner for Patents,  
Washington, D.C. 20231, on December 28, 1999.

*Madelyn C. Vogt*  
Madelyn C. Vogt

Sir:

Applicants submit herewith patents, publications or other  
information [attached hereto and listed on the attached Form  
PTO-1449 (modified)] of which they are aware, which they  
believe may be material to the examination of this application  
and in respect of which there may be a duty to disclose in  
accordance with 37 CFR § 1.56.

This Information Disclosure Statement:

- (a) ☒ accompanies the new patent application submitted  
herewith. 37 CFR § 1.97(a).
- (b) ☐ is filed within three months after the filing date  
of the application or within three months after  
the date of entry of the national stage of a PCT  
application as set forth in 37 CFR § 1.491.
- (c) ☐ as far as is known to the undersigned, is filed  
before the mailing date of a first Office action  
on the merits.

- (d) ☐ is filed after the first office action and more than three months after the application's filing date or PCT national stage date of entry filing but, as far as is known to the undersigned, prior to the mailing date of either a final rejection or a notice of allowance, whichever occurs first, and is accompanied by either the fee (\$230) set forth in 37 CFR § 1.17(p) or a certification as specified in 37 CFR § 1.97(e), as checked below.
- (e) ☐ is filed after the mailing date of either a final rejection or a notice of allowance, whichever occurred first, and is accompanied by the fee (\$130) set forth in 37 CFR § 1.17(i)(1) and a certification as specified in 37 CFR § 1.97(e), as checked below. This document is to be considered as a petition requesting consideration of the information disclosure statement.

[If either of boxes (d) or (e) are checked above, the following "certification" under 37 CFR § 1.97(e) may need to be completed.] The undersigned certifies that:

- (f) ☐ Each item of information contained in the information disclosure statement was cited in a communication mailed from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this information disclosure statement.
- (g) ☐ No item of information contained in this information disclosure statement was cited in a communication mailed from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned after making reasonable inquiry, was known to any individual designated in 37 CFR § 1.56(c) more than three months prior to the filing of this information disclosure statement.

A list of the patent(s) or publication(s) is set forth on the attached Form PTO-1449 (Modified).

A copy of the items on PTO-1449 (Modified) is supplied herewith:

- (h) ☒ each (i) ☐ none (j) ☐ only those listed below:

Those patent(s) or publication(s) which are marked with an asterisk (\*) in the attached form PTO-1449 (Modified) are not supplied because they were previously cited by or submitted to the Office in a prior application Serial No. \_\_\_\_\_, filed \_\_\_\_\_ and relied upon in this application for an earlier filing date under 35 U.S.C. § 120.

A concise explanation of relevance of the items listed on form PTO-1449 (Modified) is:

- (k) ☒ not given
- (l) ☐ given for each listed item
- (m) ☐ given for only non-English language listed item(s)  
[Required]
- (n) ☐ is in the form of an English language copy of a Search Report from a foreign patent office, issued in a counterpart application, which refers to the relevant portions of the references [copy attached].

#### REMARKS REGARDING CITED ART

The Examiner is reminded that a "concise explanation of the relevance" of the submitted items "may be nothing more than identification of the particular figure or paragraph of the patent or publication which has some relation to the claimed invention," MPEP § 609.

While the information and references disclosed in this Information Disclosure Statement may be "material" pursuant to 37 CFR § 1.56, it is not intended to constitute an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

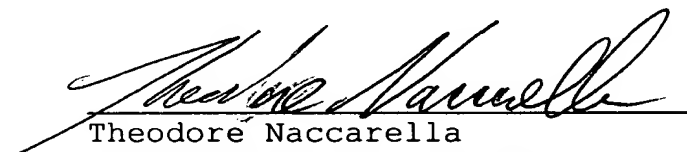
In accordance with 37 CFR § 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR § 1.56(a) exists. It is

submitted that the Information Disclosure Statement is in compliance with 37 CFR § 1.98 and MPEP § 609 and the Examiner is respectfully requested to consider the listed references.

[X] The Commissioner is hereby authorized to charge our Deposit Account No. 12-2325 for any fees required in connection with the filing of this Information Disclosure Statement. **A duplicate copy of this Notice is enclosed for this purpose.** In particular, in the event that an Office Action has crossed in the mail with this Information Disclosure Statement, the Commissioner is authorized to charge the above-named deposit account for any fees required pursuant to CFR §§ 1.17(p) or 1.17(i)(1).

Respectfully submitted,

Dated: 12.28.99

  
Theodore Naccarella  
Registration No. 33,023

Synnestvedt & Lechner LLP  
2600 Aramark Tower  
1101 Market Street  
Philadelphia, PA 19107  
Telephone: 215-923-4466  
Facsimile: 215-923-2189

Attorney for Applicants  
Lucent Technologies, Inc.

<b>Form PTO-1449 Modified</b>  <b>List of Patents and Publications Cited by Applicant</b> (Use several sheets if necessary)  <b>U.S. Department of Commerce Patent and Trademark Office</b>		<b>Docket No.</b> Benesty 6-9		<b>Application No.</b>	
		<b>Applicant(s)</b> Jacob Benesty Dennis Raymond Morgan			
		<b>Filing Date</b>		<b>Group</b>	

0675 U.S. PTO  
 09/471547  
 12/26/99

U.S. PATENT DOCUMENTS						
Examiner Initials		Document No.	Date	Name	Class	Subclass
	AA	5,828,756	10/27/1998	Benesty et al.	381	66
	AB	09/395,834	9/14/1999	Benesty		

OTHER DOCUMENTS (including author, date, pertinent pages)		
	AB	"A frequency domain stereophonic acoustic echo canceler exploiting the coherence between the channels", Jacob Benesty, Andre Gilloire, Yves Grenier, Acoustics Research Letters Online, published July 21, 1999

<b>Examiner</b>	<b>Date Considered</b>
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